CW#137: Reasoning

Geometry

Due: Thursday, June 2nd

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ TP:\_\_\_\_\_\_\_\_

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| --- |
| What is reasoning? |

|  |  |
| --- | --- |
| What are three things that stood out as strengths? | What are three things that could be improved on? |
| Which student had the strongest reasoning , why? | |

Movie Clip:

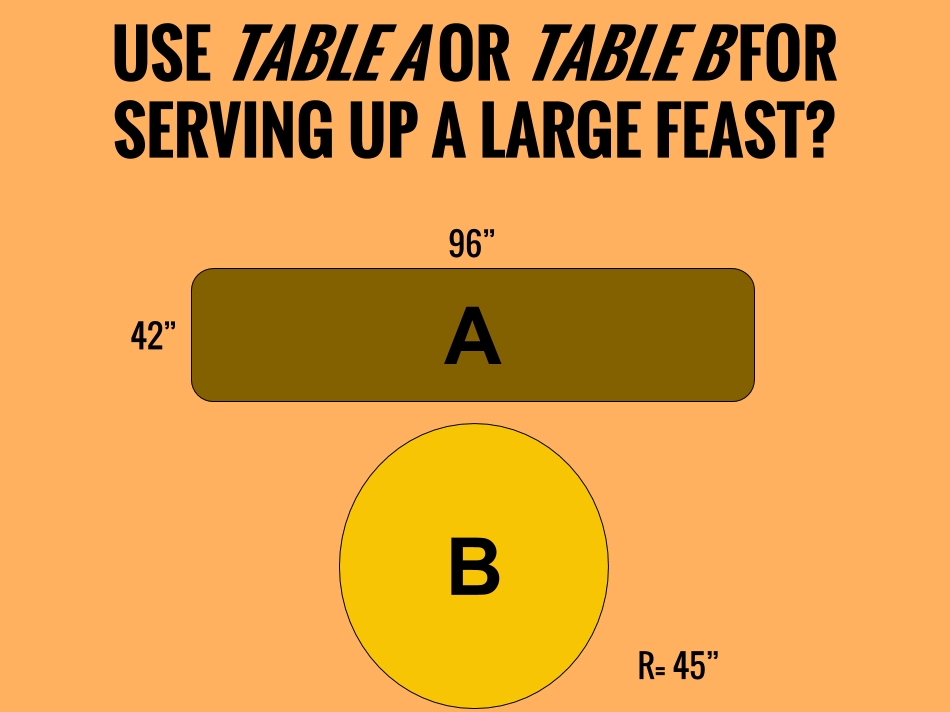
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| --- |
| What is her reasoning? |

What makes strong reasoning? [This list will be used to grade Friday’s quiz]

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|  |

Task 1:

Justify your answer using claim, evidence, reason.



Task 2:

Below is a table of diameters of different denominations of United States Coins:

|  |  |
| --- | --- |
| Denomination | Diameter |
| Dime | 17.9 mm |
| Nickel | 21.2 mm |
| Quarter | 24.3 mm |
| Half Dollar | 30.6 mm |

If we place nickels around a central dime, as in the picture below, there is room for five nickels with extra space but not enough room for a sixth nickel:

|  |  |
| --- | --- |
| ickels_b76ff7936e45c8e06f3232dd9d6e002d | a. How many dimes fit around a central dime? What about around a central nickel, quarter, or half dollar? Do the dimes fit snugly or is there extra space?  b. How many half dollars fit around a central dime? What about around a central nickel, quarter, or half dollar? Do the half dollars fit snugly or is there extra room?  c. Extending the work in (a) and (b) above, for positive numbers r and s how many circles of radius s will fit around a central circle of radius r? |